

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/701,284	KYUSHIMA ET AL.	
	Examiner	Art Unit	
	Glenn Zimmerman	2879	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to February 17, 2004.
2.  The allowed claim(s) is/are 1-13.
3.  The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All    b)  Some\*    c)  None    of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 0603.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

<ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	<ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____.</li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol>
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**DETAILED ACTION*****Response to Amendment***

Amendment, filed on February 17, 2004, has been entered and acknowledged by the examiner.

***Allowable Subject Matter***

Claims 1-13 are allowed.

Regarding claim 1, the following is an examiner's statement of reasons for allowance: The prior art of record neither shows nor suggests a method of manufacturing a photomultiplier tube including the combination of all the limitations as set forth in claim 1, and specifically aligning the metal side tube with a stem plate so that an outer surface of the metal side tube is flush with an edge surface of the stem plate, wherein the entirety of the outer surface of the metal side tube is substantially in parallel with an axial direction of the metal side tube when aligned and a faceplate fixed on the other open end of a side tube; could not be found elsewhere in prior art.

Regarding claims 2, 3 and 11, claims 2, 3 and 11 are allowed for the reasons given in claim 1, because of their dependency status on claim 1.

Regarding claim 4, the following is an examiner's statement of reasons for allowance: The prior art of record neither shows nor suggests a photomultiplier tube including the combination of all the limitations as set forth in claim 4, and specifically a metal side tube with the stem plate fixed on one open end, and

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enclosing the electron multiplying section and the anode, the entirety of an outer surface of the metal side tube being substantially in parallel with an axial direction of the metal side tube; a faceplate fixed on the other open end of the metal side tube could not be found elsewhere in prior art.

Regarding claims 5-9 and 12, claims 5-9 and 12 are allowed for the reasons given in claim 4, because of their dependency status on claim 4.

Regarding claim 10, the following is an examiner's statement of reasons for allowance: The prior art of record neither shows nor suggests a radiation detector including the combination of all the limitations as set forth in claim 10, and specifically a metal side tube with metal stem plate fixed on one open end, and enclosing the electron multiplying section and the anode, the entirety of an outer surface of the metal side tube being substantially in parallel with an axial direction of the metal side tube, wherein the metal stem plate is fixed by welding to the metal side tube such that an outer surface of the metal side tube is flush with an edge surface of the stem plate; and a faceplate fixed on the other open end of the metal side tube could not be found elsewhere in prior art.

Regarding claim 13, claim 13 is allowed for the reasons given in claim 10, because of its dependency status on claim 10.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn Zimmerman whose telephone number is (571) 272-2466. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Glenn Zimmerman

Vip Patel  
Primary Examiner  
Art Unit 2879